



# **Thermo-Dynamic Battery Storage Unit**

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## **BACKGROUND OF THE INVENTION.**

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GENERALLY, WE, MANKIND, HAVE HAD MAJOR PROBLEMS WITH RELATION TO BATTERIES. THE PROBLEMS ARE DEFINED AS: THE CHARGING OF BATTERIES, SERVICING OF BATTERIES, THE NON-REUSABILITY OF BATTERIES, AND THE HIGHLY DANGEROUS, HAZARDOUS, AND EXPLOSIVE, ENVIROMENTALLY POLLUTING CHEMICALS USED IN BATTERIES, AND THEIR HEAVY WEIGHT. OUR THERMO-DYNAMIC BATTERY STORAGE UNIT SOLVES ALL OF THESE ISSUES. IT GENERATES CLEAN, USABLE ENERGY, WHILE REMAINING CHEMICAL AND EXPLOSION FREE, LIGHTWEIGHT, RECHARGING VERY FAST, ECONOMICAL, AND ENVIROMENTALLY FRIENDLY.

THE PRESENT INVATION RELATES GENERALLY TO A POWER DEVICE FOR USE IN ANY APPLICATION FOR ANY ELECTRICAL DEVICE THAT REQUIRES BATTERY POWER TO FUNCTION. MORE EXPLICITLY, THE PRESENT INVATION DISCLOSES AN INNOVATIVE, HIGH POWER DEVICE, WHICH DOES NOT GENERATE ANY HARMFUL, ENVIROMENTALLY POLLUTING RESIDUE. IT IS EXTREMELY HIGH ECOLOGICALLY AWARE IN OPERATION AND DESIGN, ACTUALLY REPLENISHING CLEAN OZONE BACK INTO THE ATMOSPHERE, IT IS LONG LASTING, AND DESIGNED TO BE RE-USABLE UNLIKE CONVENTIONAL UNITS.

## **OBJECTS OF THE INVENTION.**

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THE PRESENT INVENTION RELATES GENERALLY TO A NEW POWER DEVICE. MORE DISTINCTIVLY, IT CREATES ELECTRICAL POWER FROM COMPRESSED GAS ENERGY.

ANOTHER POSITIVE ATTRIBUTE OF THE PRESENT INVANTION IS THE REALITY THAT THE COMPRESSED GAS IS PASSED THROUGH THE GENERATER, WHICH IS EXCHANGING THE HEAT WITH THE GENERATOR TO INCREASE THE EFFICENCY OF THE GENERATOR AND THE TURBINE. IT IS MORE COMPLETLY USING THE ENERGY, THAT IS STORED AND CONSERVED IN THE THERMO-DYNAMIC BATTERY STORAGE UNIT.

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## SUMMARY OF THE INVENTION

THE PRESENT INVENTION PROVIDES A UNIQUE BATTERY SYSTEM. PRODUCES FROM COMPRESSED GAS ENERGY, CLEAN USABLE ELECTRICAL POWER FOR USE IN ANY APPLICATION IN ANY DEVICE THAT REQUIRES BATTERY POWER TO OPERATE. THE NEW INVENTION IS MUCH LIGHTER FOR THE SAME ENERGY OUTPUT AS THE CONVENTIONAL UNITS, IT CAN BE CHARGED IN MINUTES RATHER THAN IN HOURS, IT OPERATES AND IS CHEMICAL AND EXPLOSION FREE. THE NEW INVENTION IS ALSO RE-USABLE UNLIKE CONVENTIONAL BATTERIES. IT IS ENVIRONMENTALLY SAFE TO OPERATE, AND OPERATES AT ABOUT 90% EFFICENCE.

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## BRIEF DESCRIPTION OF DRAWINGS

FIG.1 IS A SCHEMATIC VIEW OF THE THERMO-DYNAMIC BATTERY  
STORAGE UNIT.

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## DETAILED DESCRIPTION OF THE INVENTION

THE MAIN PARTS OF THERMO-DYNAMIC BATTERY STORAGE UNIT ARE:  
COMPRESSED GAS TANK, GENERATOR CONNECTED WITH TWO TURBINE  
FAN SETS IN SEREASE, HEAT EXCHANGER CHAMBER AND CONTROL  
UNIT. THE GAS PASSING THROUGH THE FIRST TURBINE FAN BLADES  
WILL FORCE THE GENERATOR TO TURN, WHICH IS IN TURN GENERATES  
ELECTRICITY AND HEAT. GENERATED HEAT EXPENDS THE GAS MORE  
FORCING THE SECOND SET OF FAN BLADES TO TURN, WHICH ARE  
FEEDBACKED TO THE GENERATOR WITH THE SAME SHAFT TO TURN  
GANERATOR. THE GAS IS DELAYED IN THE HEAT EXCHANGER CHAMBER  
LONG ENOUGH TO CREATE EXPECTED RESULTS. AT THE SAME TIME IT  
COOLS DOWN THE GENERATOR AND INCREASES GENERATOR  
EFFICENCY. GENERATING OF ELECTRICITY IS CONTROLLED BY THE  
CONTROL UNIT AND FLOW CONTROL VALVE.

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